

*Observations of Minor Planets from Photographs taken with the
30-inch Reflector of the Thompson Equatorial at the Royal
Observatory, Greenwich, during the year 1904.*

(Communicated by the Astronomer Royal.)

The following positions of minor planets were obtained from photographs taken with the 30-inch Reflector during the year 1904.

The plates were measured with the astrographic micrometer. Four reference stars were, as a rule, measured with the planet, their positions being derived when possible from the Catalogues of the Astronomische Gesellschaft.

The positions given are not corrected for Parallax.

$$\log \text{Parallax Correction} = \log \text{Parallax Factor} - \log \Delta.$$

Date and G.M.T. 1904.	Apparent R.A.	Apparent Dec.	Log. Parallax Factor. R.A. Dec.
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d	h	m	s	h	m	s	°	'	"
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(388) Charybdis.

Feb. 15	11 14 15	8 37 23.50	+25 8 58.7	+8.423	+0.588
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(37) Fides.

Feb. 13	9 16 7	8 38 15.32	+22 51 42.0	-9.271	+0.646
15	10 20 15	8 36 30.84	+22 54 28.3	-8.817	+0.624
17	10 31 32	8 34 53.47	+22 56 38.6	-8.469	+0.621
18	9 0 26	8 34 10.21	+22 57 28.1	-9.241	+0.642

(106) Dione.

Feb. 8	10 43 15	8 51 22.22	+24 1 3.2	-9.002	+0.612
13	9 40 59	8 47 21.28	+24 15 35.3	-9.217	+0.622
15	10 45 13	8 45 46.07	+24 20 50.0	-8.605	+0.601
17	11 14 14	8 44 15.15	+24 25 34.7	+8.448	+0.599
18	9 24 5	8 43 34.78	+24 27 36.0	-9.192	+0.617

(313) Chaldea.

Feb. 13	10 7 58	9 22 52.37	+1 43 1.5	-9.210	+0.826
18	9 45 8	9 19 6.55	+2 46 31.8	-9.206	+0.820

(505) Cava.

Feb. 15	7 7 9	4 59 26.67	+25 19 57.2	-8.423	+0.585
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Date and G.M.T. 1904.	Apparent R.A.	Apparent Dec.	Log. Parallax Factor. R.A.	Dec.
d h m s	h m s	° ′ ″		
(454) Mathesis.				
Mar. 10 9 40 24	10 20 17.95	+19 29 59.2	-9.158	+0.677
15 10 19 20	10 16 8.23	+19 35 36.0	-8.609	+0.665
16 10 11 8	10 15 22.35	+19 36 8.9	-8.675	+0.665
(334) Chicago.				
Mar. 10 10 17 29	10 44 52.75	+10 57 47.2	-9.079	+0.759
16 10 36 16	10 41 22.74	+11 21 57.5	-8.673	+0.752
(47) Aglaja.				
Mar. 10 10 54 17	10 53 21.84	+9 48 15.1	-8.870	+0.766
16 10 56 33	10 48 31.24	+10 9 4.9	-8.386	+0.762
21 11 21 12	10 44 43.14	+10 24 16.4	+8.728	+0.760
(134) Sophrosyne.				
Mar. 21 10 53 3	11 57 6.16	-4 59 54.4	-9.025	+0.862
Apr. 6 10 14 22	11 41 50.68	-4 23 37.0	-8.635	+0.860
9 11 4 22	11 39 21.15	-4 17 3.0	+8.771	+0.860
12 10 33 53	11 37 5.26	-4 11 1.3	+8.505	+0.859
(46) Hestia.				
Apr. 6 10 44 2	11 47 34.42	+1 28 10.5	-7.903	+0.827
9 11 35 41	11 45 22.72	+1 44 27.8	+8.984	+0.826
12 11 0 24	11 43 21.85	+1 59 28.1	+8.804	+0.824
(19) Fortuna.				
Apr. 9 12 0 6	11 54 36.68	-0 30 15.1	+9.082	+0.839
12 11 27 0	11 52 27.80	-0 14 18.3	+8.955	+0.837
(288) Glauke.				
Apr. 15 10 46 36	12 43 47.46	+3 30 59.7	-8.565	+0.813
18 9 47 51	12 41 50.39	+3 41 49.6	-9.031	+0.813
21 11 18 59	12 39 58.55	+3 51 5.2	+8.771	+0.811
(403) Cyane.				
Apr. 15 11 20 34	12 55 19.51	-16 56 23.3	-00	+0.911

Date and G.M.T. 1904.				Apparent R.A.	Apparent Dec.	Log. Parallax Factor.							
	d	h	m	s	h	m	s	o	'	"	R.A.	Dec.	
(317) Roxane.													
Apr. 15	11	55	2		12	57	59.69	-3	46	54.9	+8.708	+0.857	
	18	10	13	20		12	55	20.35	-3	29	18.2	-8.948	+0.855
(478) Tergeste.													
Apr. 15	12	24	4		13	9	2.07	-18	27	7.7	+8.913	+0.914	
	18	10	52	17		13	6	55.91	-18	2	50.2	-8.687	+0.914
May 3	9	52	26		12	57	43.24	-15	56	18.0	-8.521	+0.908	
(121) Hermione.													
May 18	10	28	59		15	39	42.22	-15	49	46.7	-9.144	+0.902	
	19	10	25	36		15	38	56.63	-15	48	37.6	-9.140	+0.903
	31	10	26	44		15	30	0.93	-15	36	33.1	-8.650	+0.907
June 3	10	39	31		15	27	54.95	-15	34	16.5	-7.220	+0.907	
(90) Antiope.													
May 18	10	59	36		15	48	12.92	-19	13	5.0	-9.029	+0.914	
	19	11	3	26		15	47	22.69	-19	11	9.4	-8.972	+0.915
	31	11	13	51		15	37	29.78	-18	48	13.6	+8.306	+0.917
(79) Eury nome.													
May 18	11	31	28		16	10	8.24	-16	55	13.9	-8.951	+0.909	
	19	11	48	16		16	9	10.23	-16	51	14.5	-8.726	+0.911
	31	10	52	42		15	57	40.48	-16	5	26.7	-8.681	+0.908
June 3	11	36	22		15	54	51.46	-15	54	37.3	+8.682	+0.908	
(153) Hilda.													
May 18	12	5	30		16	9	8.83	-18	19	39.6	-8.527	+0.915	
(176) Idunna.													
June 3	12	8	10		16	34	24.59	+2	5	38.3	+8.546	+0.823	
(322) Phæo.													
June 20	11	44	54		17	41	49.22	-20	25	32.9	-7.533	+0.913	
July 5	12	1	37		17	27	56.92	-19	37	49.2	+9.163	+0.912	
	6	10	55	49		17	27	9.34	-19	34	58.4	+8.660	+0.918
	8	11	2	37		17	25	32.43	-19	29	8.1	+8.860	+0.917

Date and G.M.T. 1904.	Apparent R.A.			Apparent Dec.			Log. Parallax Factor.			
	d	h	m	s	h	m	s	R.A.	Dec.	
(217) Eudora.										
July 6	11	54	38		17	39	55.81	-5 32 37.9	+9.061	+0.865
8	11	48	36		17	38	37.13	-5 41 41.6	+9.078	+0.865
9	12	29	54		17	37	58.32	-5 46 42.3	+9.271	+0.863
11	11	6	18		17	36	48.81	-5 56 45.6	+8.875	+0.868
(419) Aurelia.										
June 18	11	29	32		18	34	19.55	-17 39 12.2	-9.108	+0.909
20	12	14	47		18	32	46.38	-17 33 59.8	-8.585	+0.913
July 1	11	3	37		18	23	59.46	-17 11 37.8	-8.844	+0.911
6	12	14	5		18	20	4.20	-17 4 46.8	+8.935	+0.910
(364) Isara.										
July 6	13	11	46		20	16	9.54	-21 26 19.2	-8.013	+0.924
8	13	14	17		20	14	19.22	-21 38 27.8	+8.014	+0.924
15	11	38	22		20	7	23.58	-22 21 30.6	-8.974	+0.923
20	11	51	35		20	2	1.29	-22 52 31.6	-8.469	+0.927
21	11	11	35		20	0	57.75	-22 58 21.0	-8.952	+0.924
(483) Seppina.										
July 20	13	31	25		20	44	46.44	+2 15 51.3	+8.804	+0.822
Aug. 2	11	20	2		20	36	19.55	+1 10 8.9	-8.707	+0.829
6	11	9	26		20	33	41.31	+0 44 47.7	-8.583	+0.832
8	10	38	36		20	32	24.21	+0 31 29.0	-8.863	+0.833
(115) Thyra.										
Aug. 2	11	52	49		20	54	15.72	-16 46 59.1	-8.477	+0.911
8	11	18	4		20	47	17.32	-16 37 37.3	-8.564	+0.910
12	10	18	24		20	42	44.02	-16 30 50.6	-9.009	+0.907
17	10	26	52		20	37	13.10	-16 21 27.3	-8.667	+0.909
(511) Davida.										
July 20	13	1	12		20	31	49.86	-24 24 8.5	+8.586	+0.929
(539) Pamina.										
Aug. 8	11	55	29		21	20	9.94	-6 55 32.7	-9.080	+0.871
12	11	7	38		21	16	36.39	-6 59 31.2	-8.867	+0.873
17	11	7	37		21	12	8.46	-7 6 34.0	-8.528	+0.874

Date and G.M.T. 1904.	Apparent R.A.			Apparent Dec.			Log. Parallax Factor.			
	d	h	m	s	h	m	s	R.A.	Dec.	
(236) Honoria.										
Aug. 8	12	22	17		21	17	22.40	-5 20 3.0	+8.351	+0.865
	12	40	55		21	14	22.18	-5 44 14.6	-9.050	+0.866
	17	10	48	11	21	10	35.02	-6 17 35.6	-8.784	+0.870
	18	11	7	39	21	9	50.11	-6 24 35.4	-8.382	+0.871
(372) Palma.										
Aug. 18	12	39	15		22	13	16.96	-10 6 21.7	+8.356	+0.887
Sept. 3	9	26	32		21	57	43.84	-9 56 22.2	-9.200	+0.881
	7	9	23	33	21	53	58.20	-9 53 10.9	-9.125	+0.883
	9	9	48	48	21	52	8.02	-9 51 21.3	-8.897	+0.885
(389) Industria.										
Sept. 3	9	48	54		22	15	54.24	+0 27 27.5	-9.177	+0.833
	7	9	46	18	22	12	29.89	+0 11 8.5	-9.103	+0.835
	9	10	24	0	22	10	49.87	+0 2 34.0	-8.721	+0.836
	16	9	12	17	22	5	32.92	-0 27 35.0	-9.054	+0.839
(95) Arethusa.										
Sept. 7	10	14	0		22	23	46.92	+11 33 29.2	-9.006	+0.753
	9	10	50	35	22	22	18.94	+11 21 46.8	-8.442	+0.752
	12	11	8	59	22	20	12.51	+11 3 11.3	+8.388	+0.754
(284) Amalia.										
Sept. 3	11	4	12		23	23	0.11	+11 38 25.2	-9.146	+0.755
	7	10	47	1	23	19	40.24	+11 9 28.9	-9.136	+0.759
	9	11	47	9	23	17	56.45	+10 53 3.4	-8.415	+0.755
	16	9	45	9	23	12	11.47	+ 9 50 59.4	-9.216	+0.772
(331) Etheridgea.										
Sept. 9	12	12	13		23	16	30.46	-10 58 33.5	+8.253	+0.891
Oct. 3	9	14	12		22	58	44.98	-11 43 26.8	-8.957	+0.892
• (405) Thia.										
Sept. 19	9	19	48		23	50	26.78	+16 58 5.5	-9.384	+0.725
	20	10	12	45	23	49	33.81	+16 52 9.0	-9.205	+0.708
Oct. 3	7	53	18		23	38	55.46	+15 26 25.8	-9.423	+0.745
	8	9	34	25	23	35	8.40	+14 48 35.9	-8.930	+0.721
	12	9	46	10	23	32	24.11	+14 17 56.1	-8.559	+0.723

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Date and G.M.T. 1904.				Apparent R.A.	Apparent Dec.	Log. Parallax Factor.
	d	h	m s	h m s	° ′ ″	R.A. Dec.
(373) Melusina.						
Sept. 19	10	36	16	0 1 27.41	-2 53 23.3	-9.152 +0.851
Oct. 3	9	50	34	23 48 18.73	-2 42 33.8	-9.036 +0.851
8	10	7	27	23 44 1.02	-2 36 7.2	-8.650 +0.851
12	10	10	58	23 40 52.74	-2 29 33.8	-7.982 +0.851
(258) Tyche.						
Sept. 16	10	11	5	23 59 2.79	+14 4 27.0	-9.298 +0.741
19	9	2	31	23 57 15.55	+13 27 36.7	-9.429 +0.761
20	9	57	23	23 56 37.38	+13 14 7.4	-9.281 +0.747
27	10	43	0	23 52 19.98	+11 36 48.9	-8.863 +0.750
(375) Ursula.						
Sept. 19	9	42	6	0 1 59.20	+11 33 33.8	-9.347 +0.766
20	10	31	20	0 1 2.27	+11 33 17.4	-9.164 +0.756
Oct. 3	8	26	10	23 49 20.87	+11 20 17.2	-9.369 +0.769
8	10	32	5	23 45 5.19	+11 11 29.6	-7.814 +0.753
(370) Modestia.						
Oct. 3	10	30	57	0 25 11.04	+18 39 30.5	-9.034 +0.682
8	10	57	55	0 20 22.26	+18 11 5.2	-8.372 +0.681
12	11	4	57	0 16 45.25	+17 45 7.6	+8.304 +0.686
13	10	1	31	0 15 54.76	+17 38 37.8	-8.884 +0.690
(68) Leto.						
Sept. 16	11	45	16	1 7 57.01	-2 13 55.3	-9.190 +0.848
19	10	55	53	1 5 46.97	-2 20 35.5	-9.309 +0.847
20	10	51	3	1 5 0.96	-2 22 49.0	-9.309 +0.847
27	11	5	31	0 59 10.98	-2 37 53.8	-9.138 +0.850
Oct. 3	10	58	42	0 53 47.49	-2 48 47.7	-9.011 +0.852
Nov. 3	9	48	35	0 30 19.77	-2 33 46.7	+8.158 +0.851
(482) Petrina.						
Oct. 3	11	19	54	0 49 1.97	-0 45 10.5	-8.803 +0.831
13	10	28	10	0 42 10.62	-0 38 54.3	-8.863 +0.840
(447) Valentina.						
Oct. 13	11	23	10	0 48 28.96	-1 36 59.8	+7.681 +0.845
14	11	45	59	0 47 41.85	-1 40 30.5	+8.694 +0.846

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Date and G.M.T. 1904.	Apparent R.A.			Apparent Dec.			Log. Parallax Factor.	
	d	h	m	s	h	m	s	

(546) Herodias.

Oct. 14	11	5	10	0 57 14.71	+3 53 53.3	-8.505	+0.811
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(335) Roberta.

Nov. 12	9	53	56	2 21 38.28	+5 50 34.0	-8.986	+0.798
14	9	48	59	2 19 56.89	+5 43 42.7	-8.957	+0.799

(17) Thetis.

Nov. 12	9	29	0	2 21 42.55	+4 54 36.3	-9.129	+0.806
14	9	25	14	2 19 59.71	+4 48 53.5	-9.104	+0.806

(170) Maria.

Nov. 12	10	53	51	2 32 29.58	+38 55 55.8	-8.392	+0.275
14	10	54	13	2 30 22.26	+38 41 29.8	-7.612	+0.283

(178) Belisana.

Nov. 14	11	22	22	2 27 5.87	+14 9 55.4	+8.693	+0.725
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(298) Baptistina.

Dec. 5	10	26	8	3 13 40.46	+27 17 9.6	+8.255	+0.553
7	8	55	47	3 11 47.93	+27 10 44.6	-9.099	+0.569

(443) Photographica.

Dec. 5	10	58	53	3 19 56.19	+11 30 35.4	+8.767	+0.751
7	9	26	48	3 18 19.53	+11 25 26.4	-8.881	+0.752

(154) Bertha.

Nov. 14	11	49	48	4 36 54.73	+37 17 59.6	-9.158	+0.360
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Jan. 1907.

Occultations of Stars by the Moon.

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Day, 1906.		Phenomenon.	Telescope.	Power.	Moon's Limb.	Mean Solar Time of Observation.
January 4		Disapp. ξ^2 Ceti	...	...	Dark	4 12 3'57 W. B.
4	"	"	Great Equatorial ...	...	670	4 12 3'57
4	"	"	Astrographic Equatorial	...	225	4 12 2'34
4	"	"	Sheepshanks Equatorial	...	100	4 12 3'03
4	"	"	Great Equatorial (Corbett)	...	120	4 12 3'57
10	"	"	Sheepshanks Equatorial	...	100	12 3 58'84
February 3 (e)	"	Aldebaran ...	Astrographic Equatorial ...	...	225	Dark
3 (g)	"	"	Sheepshanks Equatorial	...	100	5 22 30'36 H.
3 (g)	"	"	Sheepshanks Equatorial (finder)	...	100	5 22 29'70 H. F.
3 (a)	Reapp.	"	Astrographic Equatorial	...	225	Bright
3	"	"	Old Altazimuth ...	...	100	5 22 31'10 J. S.
3	"	"	Thompson Equatorial (Hodgson)	...	100	6 28 34'23 A. C.
3	"	"	Sheepshanks Equatorial ...	...	100	6 28 (38'02) D. E.
3	Disapp. W.B. (2) IV. 724	...	Astrographic Equatorial	...	225	Dark
4	"	115 Tauri ...	...	...	225	5 24 48'29 W. S.
4 (f)	Reapp.	"	...	...	225	Bright
7 (c)	Disapp. ζ Cancer	"	...	...	400	Dark
7 (e)	"	"	Great Equatorial	...	670	7 6 59'59 H.
7 (e)	"	"	Sheepshanks Equatorial ...	...	100	7 6 58'24 B.
7	"	"	Merz Refractor ...	...	250	7 6 58'01 J. S.
7	"	"	Thompson Equatorial ...	...	100	7 6 57'44 P. M.
7	"	"			7	6 58'24 R. F.